

Recent trends in membranes and membrane processes

Desalination

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Development and experimental studies on a fully-rotary valve energy recovery device for SWRO desalination system. <i>Desalination</i> , 2016, 397, 67-74.	4.0	22
2	Graphene oxide (GO) as functional material in tailoring polyamide thin film composite (PA-TFC) reverse osmosis (RO) membranes. <i>Desalination</i> , 2016, 394, 162-175.	4.0	105
3	Selective hydrophilization of the permeate surface to enhance flux in membrane distillation. <i>Separation and Purification Technology</i> , 2016, 170, 427-433.	3.9	22
4	Field evaluation of membrane distillation followed by humidification/dehumidification crystallizer for inland desalination of saline groundwater. <i>Desalination</i> , 2016, 398, 12-21.	4.0	30
5	Enhanced desalination of polyamide thin film nanocomposite incorporated with acid treated multiwalled carbon nanotube-titania nanotube hybrid. <i>Desalination</i> , 2017, 409, 163-170.	4.0	93
6	Introducing pre-pressurization/depressurization grooves to diminish flow fluctuations of a rotary energy recovery device: Numerical simulation and validating experiment. <i>Desalination</i> , 2017, 413, 1-9.	4.0	7
7	Water recovery from brines and salt-saturated solutions: operability and thermodynamic efficiency considerations for desalination technologies. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2506-2518.	1.6	28
8	Theoretical analysis and auxiliary experiment of the optimization of energy recovery efficiency of a rotary energy recovery device. <i>Desalination</i> , 2017, 415, 1-7.	4.0	15
9	Understanding the impact of membrane properties and transport phenomena on the energetic performance of membrane distillation desalination. <i>Journal of Membrane Science</i> , 2017, 539, 458-474.	4.1	100
10	Enzymatic construction of antibacterial ultrathin membranes for dyes removal. <i>Chemical Engineering Journal</i> , 2017, 323, 56-63.	6.6	85
11	Regeneration of dimethyl ether as a draw solute in forward osmosis by utilising thermal energy from a solar pond. <i>Desalination</i> , 2017, 415, 104-114.	4.0	30
12	Recent advances in forward osmosis (FO) membrane: Chemical modifications on membranes for FO processes. <i>Desalination</i> , 2017, 419, 101-116.	4.0	176
13	Nanophotonics-enabled solar membrane distillation for off-grid water purification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6936-6941.	3.3	348
14	Removal of phenol from wastewater using spiral-wound reverse osmosis process: Model development based on experiment and simulation. <i>Journal of Water Process Engineering</i> , 2017, 18, 20-28.	2.6	27
15	The Water-Energy Nexus: Solutions towards Energy-Efficient Desalination. <i>Energy Technology</i> , 2017, 5, 1136-1155.	1.8	36
16	Next-Generation Nanoporous Materials: Progress and Prospects for Reverse Osmosis and Nanofiltration. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 10526-10551.	1.8	91
17	Direct contact membrane distillation for textile wastewater treatment: a state of the art review. <i>Water Science and Technology</i> , 2017, 76, 2565-2579.	1.2	60
18	Chlorine attack on reverse osmosis membranes: Mechanisms and mitigation strategies. <i>Journal of Membrane Science</i> , 2017, 541, 108-126.	4.1	144

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19	Calibration of Passive Samplers for the Monitoring of Pharmaceuticals in Water-Sampling Rate Variation. <i>Critical Reviews in Analytical Chemistry</i> , 2017, 47, 204-222.	1.8	38
20	Anti-bacterial assay of doped membrane by zero valent Fe nanoparticle via in-situ and ex-situ aspect. <i>Chemical Engineering Research and Design</i> , 2017, 117, 287-300.	2.7	29
21	Recent Advances in the Fabrication of Membranes Containing α - ω Pairs for Nanofiltration Processes. <i>Polymers</i> , 2017, 9, 715.	2.0	34
22	Silica Membrane Application for Desalination Process. , 2017, , 181-216.		3
23	Periodic electrolysis technique for in situ fouling control and removal with low-pressure membrane filtration. <i>Desalination</i> , 2018, 433, 10-24.	4.0	13
24	Combined silica and sodium alginate fouling of spiral-wound reverse osmosis membranes for seawater desalination. <i>Desalination</i> , 2018, 439, 25-30.	4.0	33
25	Energy efficiency of direct contact membrane distillation. <i>Desalination</i> , 2018, 433, 56-67.	4.0	122
26	Status and improvement of dual-layer hollow fiber membranes via co-extrusion process for gas separation: A review. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 52, 215-234.	2.1	45
27	A review of polymeric membranes and processes for potable water reuse. <i>Progress in Polymer Science</i> , 2018, 81, 209-237.	11.8	483
28	Facile acid treatment of multiwalled carbon nanotube-titania nanotube thin film nanocomposite membrane for reverse osmosis desalination. <i>Journal of Cleaner Production</i> , 2018, 181, 517-526.	4.6	29
29	Advanced process control for ultrafiltration membrane water treatment system. <i>Journal of Cleaner Production</i> , 2018, 179, 63-80.	4.6	42
30	Domestic wastewater treatment by forward osmosis-membrane distillation (FO-MD) integrated system. <i>Water Science and Technology</i> , 2018, 77, 1514-1523.	1.2	32
31	Remediation of water and wastewater by using engineered nanomaterials: A review. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2018, 53, 537-554.	0.9	47
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35	Anti-scale effects of select organic macromolecules on gypsum bulk and surface crystallization during reverse osmosis desalination. <i>Separation and Purification Technology</i> , 2018, 198, 68-78.	3.9	63
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38	A review on inorganic membranes for desalination and wastewater treatment. <i>Desalination</i> , 2018, 434, 60-80.	4.0	347
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41	Block copolymers for designing nanostructured porous coatings. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2332-2344.	1.5	8
42	Graphene Oxide (GO)-Blended Polysulfone (PSf) Ultrafiltration Membranes for Lead Ion Rejection. <i>Membranes</i> , 2018, 8, 77.	1.4	37
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51	Enhancement of energy utilization using nanofluid in solar powered membrane distillation. <i>Chemosphere</i> , 2018, 212, 554-562.	4.2	51
52	Localized heating with a photothermal polydopamine coating facilitates a novel membrane distillation process. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18799-18807.	5.2	138
53	The use of ultrasound to mitigate membrane fouling in desalination and water treatment. <i>Desalination</i> , 2018, 443, 143-164.	4.0	120
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166	Life cycle assessment of two decentralized water treatment systems combining a constructed wetland and a membrane based drinking water production system. <i>Resources, Conservation and Recycling</i> , 2022, 178, 106104.	5.3	7
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181	Photothermal Janus Ppy-Sio2@Pan/F-Sio2@Pvdf-Hfp Membrane for High-Efficient, Low Energy and Stable Desalination Through Solar Membrane Distillation. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
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